

## Plant UML-Job Application Tracker

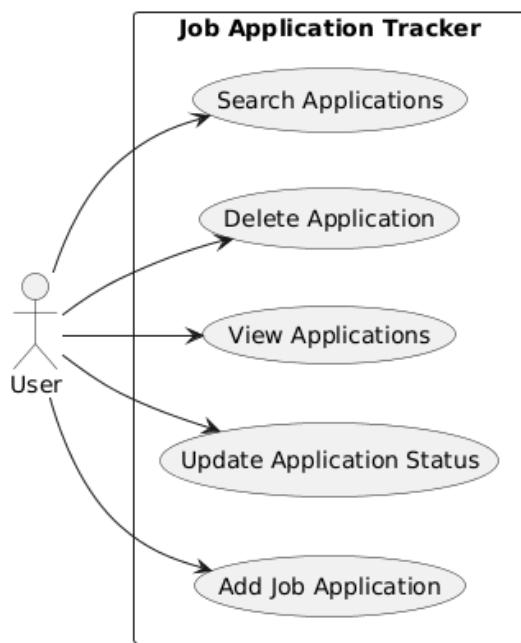
### 1. Use Case Diagram

@startuml

left to right direction

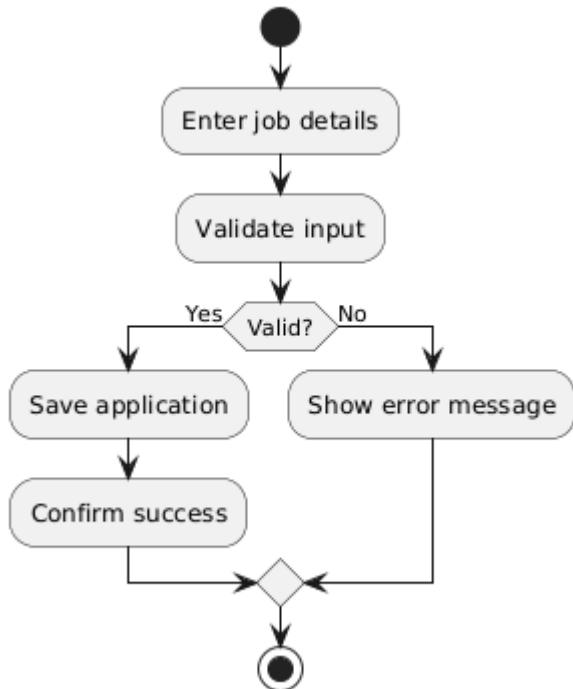
actor User

```
rectangle "Job Application Tracker" {  
    User --> (Add Job Application)  
    User --> (Update Application Status)  
    User --> (View Applications)  
    User --> (Delete Application)  
    User --> (Search Applications)  
}  
@enduml
```



## 2. Activity Diagram

```
@startuml  
start  
:Enter job details;  
:Validate input;  
if (Valid?) then (Yes)  
    :Save application;  
    :Confirm success;  
else (No)  
    :Show error message;  
endif  
stop  
@enduml
```



### 3. Collaboration Diagram

```
@startuml
```

```
object User
```

```
object ApplicationController
```

```
object JobApplication
```

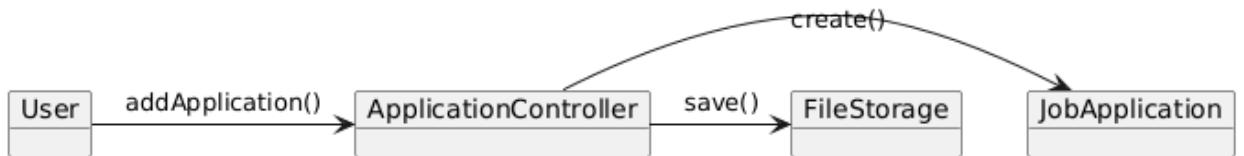
```
object FileStorage
```

```
User -> ApplicationController : addApplication()
```

```
ApplicationController -> JobApplication : create()
```

```
ApplicationController -> FileStorage : save()
```

```
@enduml
```



#### 4. Class Diagram

```
@startuml

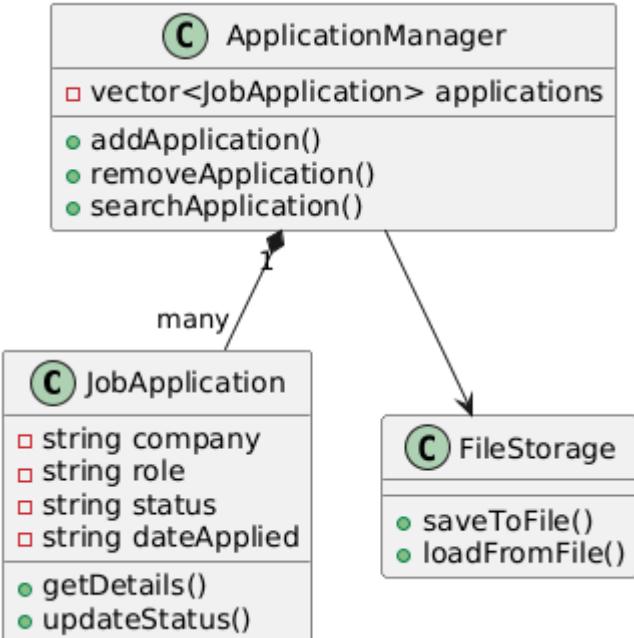
class JobApplication {
    -string company
    -string role
    -string status
    -string dateApplied
    +getDetails()
    +updateStatus()
}

class ApplicationManager {
    -vector<JobApplication> applications
    +addApplication()
    +removeApplication()
    +searchApplication()
}

class FileStorage {
    +saveToFile()
    +loadFromFile()
}

ApplicationManager "1" *-- "many" JobApplication
ApplicationManager --> FileStorage

@enduml
```



## 5. State Diagram

```
@startuml
```

```
[*] --> Applied
```

```
Applied --> Interviewing
```

```
Interviewing --> Offered
```

```
Interviewing --> Rejected
```

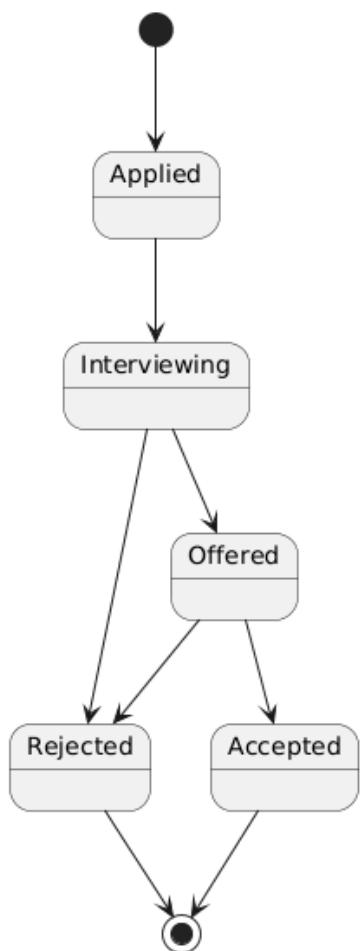
```
Offered --> Accepted
```

```
Offered --> Rejected
```

```
Accepted --> [*]
```

```
Rejected --> [*]
```

```
@enduml
```



## 6. Component Diagram

```
@startuml
```

```
component "User Interface" as UI
```

```
component "Application Logic" as Logic
```

```
component "File Storage" as Storage
```

```
UI --> Logic
```

```
Logic --> Storage
```

```
@enduml
```

